

(a) immunizing an animal with a polypeptide having the amino acid sequence of SEQ

C² ID NO:1;

(b) isolating an antibody from the animal; and

(c) screening the isolated antibody for specific binding to an amino acid sequence of
SEQ ID NO:1.

40. (AMENDED) A monoclonal antibody produced by a method comprising:

(a) immunizing an animal with a polypeptide having the amino acid sequence of SEQ

C³ ID NO:1;

(b) isolating an antibody producing cell from the animal;

(c) fusing the isolated cell with an immortalized cell to form a hybridoma cell;

(d) culturing the hybridoma cell; and

(e) isolating from the hybridoma cell culture a monoclonal antibody that specifically
binds an amino acid sequence of SEQ ID NO:1.

Please add new claims 57-59 as follows:

~~Rule 24~~ ⁵⁷ (NEW) The antibody of claim 11, wherein the antibody inhibits the transport of
phosphate molecules by a polypeptide comprising the amino acid sequence of SEQ ID NO: 1.

C⁴ ⁵⁸ (NEW) The antibody of claim 11, wherein the polypeptide consists of the amino
acid sequence of SEQ ID NO: 1.

⁶⁰₅₉ (NEW) The composition of claim 32, wherein the polypeptide consists of the
amino acid sequence of SEQ ID NO: 1.
